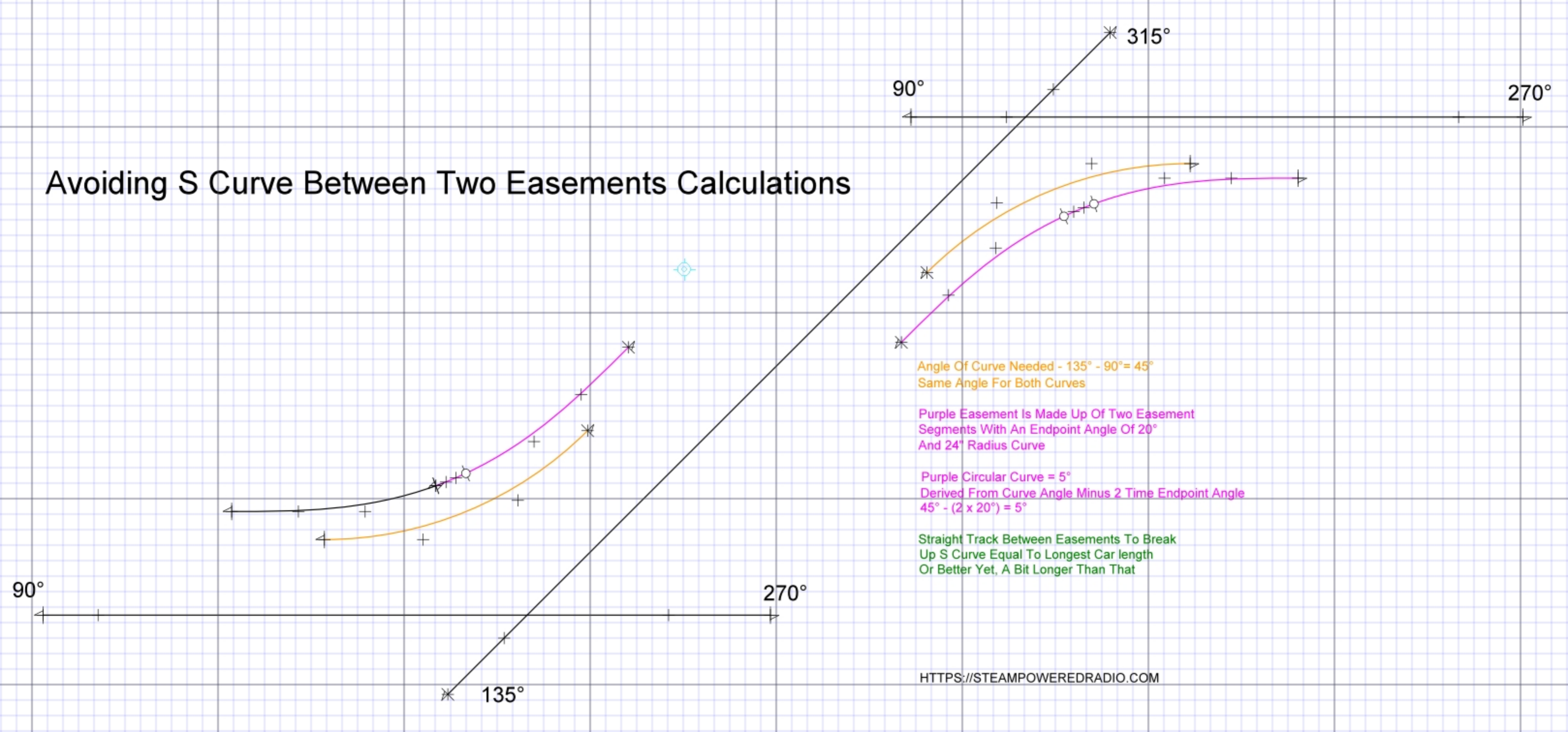


# Avoiding S Curve Between Two Easements Calculations



Angle Of Curve Needed -  $135^\circ - 90^\circ = 45^\circ$   
Same Angle For Both Curves

Purple Easement Is Made Up Of Two Easement  
Segments With An Endpoint Angle Of  $20^\circ$   
And 24" Radius Curve

Purple Circular Curve =  $5^\circ$   
Derived From Curve Angle Minus 2 Time Endpoint Angle  
 $45^\circ - (2 \times 20^\circ) = 5^\circ$

Straight Track Between Easements To Break  
Up S Curve Equal To Longest Car length  
Or Better Yet, A Bit Longer Than That